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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/059,693	01/28/2002	Joseph W. Tsang	10011434 -1	5926	
7590 11/17/2003			EXAMINER		
HEWLETT-PACKARD COMPANY			MAPLES, JOHN S		
Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER	
			ACT OWI	TAI EN NOMBER	
			1745		
			DATE MAILED: 11/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application N	lo.	Applicant(s)	——————————————————————————————————————
		10/059,693		TSANG ET AL.	
	Office Action Summary	Examiner		Art Unit	
		John S. Mapl	es	1745	_
Period fo	The MAILING DATE of this communication a or Reply	ppears on the co	ver sheet with the c	correspondence addre	ess
THE   - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provisions of the period for reply is specified above, the maximum statutory perion reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, he eply within the statutory of will apply and will expute, cause the application.	owever, may a reply be tin minimum of thirty (30) day ire SIX (6) MONTHS from on to become ABANDONE	nely filed  s will be considered timely. I the mailing date of this comm D (35 U.S.C. § 133).	nunication.
1)	Responsive to communication(s) filed on	·			
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-f	inal.		
3)	Since this application is in condition for allow closed in accordance with the practice under	vance except for r <i>Ex parte Quayl</i> e	formal matters, pro e, 1935 C.D. 11, 4	osecution as to the m 53 O.G. 213.	ierits is
Disposit	ion of Claims	:			
4)⊠	Claim(s) 1-30 ie/are pending in the application	on.			
	4a) Of the above claim(s) is/are withdo	rawn from consid	leration.		
5)□	Claim(s) is/are allowed.				•
6)⊠	Claim(s) <u>1-30</u> is are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and	l/or election requ	irement.		
Applicat	ion Papers		•		
9)[	The specification is objected to by the Exami	ner.			
10)	The drawing(s) filed on is/are: a) a	ccepted or b) $\square$	objected to by the	Examiner.	
	Applicant may not request that any objection to the	•			
	Replacement drawing sheet(s) including the corre	ection is required it	fthe drawing(s) is ob	jected to. See 37 CFR	1.121(d).
11)	The oath or declaration is objected to by the	Examiner. Note	the attached Office	Action or form PTO	-152.
Priority (	under 35 U.S.C. §§ 119 and 120				•
* (13)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a line Acknowledgment is made of a claim for dome ince a specific reference was included in the process of the priority of the foreign language process of the priority of the priority of the priority of the foreign language process of the priority of the pri	ents have been recents have been recents have been recently documents and (PCT Rule 1) and the certified estic priority undefirst sentence of corovisional application priority undestic priority undestications.	eceived. eceived in Applicat have been received. 7.2(a)). copies not receive r 35 U.S.C. § 119( the specification of eation has been received.	ion No ed in this National St ed. e) (to a provisional a r in an Application Da ceived. o and/or 121 since a	pplication) ata Sheet specific
Attachmen					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5)		(PTO-413) Paper No(s). Patent Application (PTO-1	
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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10, 12-25 and 27-30 are rejected under 35 U.S.C. 102(b) as being anticipated by either Fukuda et al.-US 3,666,565 ('565) or Fukuda et al.-US 3,892,592 ('592).

Reference is made to column 1, lines 29-66 of '565 and column 2, lines 56-72; column 3, lines 1-10; column 3, line 49-column 4, line 4.

See the Abstract in '592 along with column 1, lines 12-56; column 3, lines 4-13 and the Example.

Both of the above references teach the use of an aqueous sodium borohydride anolyte used in a fuel cell that has an anode comprising the dual catalysts material where the cathode includes the recited one catalyst material.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 11 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over either '565 or '592 in view of Amendola-US 5,804,329. (Amendola)

Both of the '565 and '592 references set forth all of the claimed subject matter except for the carrier of the borohydride being non-aqueous. Amendola teaches a fuel cell utilizing borohydride as a fuel in a non-aqueous carrier-see column 17, lines 36-47 and claims 4-9. To have utilized a non-aqueous carrier for the borohydride in either '565 or '592 would have been obvious to one of ordinary skill in this art at the time the invention was made so that the fuel cell therein could have been used at low temperatures and so that the cell could be used at specific energies.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 703-308-1795. The examiner can normally be reached on Monday-Thursday from 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 703-308-2383. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

John S. Maples Primary Examiner Art Unit 1745

JSM/11-12-2003